

CLAIMS

What I claim as my invention is:

1. A wireless system through which devices (Fan, Lamp etc) are controlled through voice, comprising:

software that runs on the PC and has embedded voice recognition engine;

a transmitter that is attached with the serial port of PC running said software;

a receiver module is attached with the each device to be controlled;

a protocol using which said software after recognizing the voice command will communicate through single said transmitter with said receiver module attached with each device to be controlled;

a microphone attached with sound card of the said PC.
2. The system of claim 1, wherein said receiver module has two dip-switches, one meant for setting Network_ID and must be same for all the wherein said receiver modules in a system, other meant for setting the Device_ID and must be unique for each wherein said receiver module.
3. The system of claim 1, wherein said receiver module comprising:

A receiver operating on FSK/ASK technique and has the ability to convert the signal received from wherein said transmitter into the bits;

A microcontroller receives those said bits serially;

A firmware in said microcontroller rom is used for the implementation of wherein said protocol; and

switching circuit which receives order from said Microcontroller and drives the relay for turning wherein said devices on/off.

4. The system of claim 1, wherein said transmitter broadcasts bits received from wherein said software through serial port based on FSK/ASK technique.
5. The system of claim 1, wherein said protocol comprising of three frames of bits;

first frame is wherein said Network_ID;

second is wherein said Device_ID; and

last is Command.
6. The system of claim 1, wherein said software is to be configured before use, with the wherein said receiver modules in the system by entering first the wherein said Network_ID, second the wherein said Device_ID on each said receiver module and last assigning each said receiver module with a name; said name will then be used as a voice command for that said receiver module.
7. The system of claim 1, where in said microphone is used to convert the wherein said voice commands spoken by system user into electrical signal.
8. The system of claim 1, wherein said software will build wherein said protocol based on the voice command recognized and corresponding wherein said Device_ID identified;

said software will then send first the wherein said Network_ID with LSB (Least Significant Bit) first; second the wherein said Device_ID with LSB first and last the wherein said Command with LSB first to the wherein said transmitter for broadcast.

9. The system of claim 3, wherein said firmware utilizes three registers of wherein said microcontroller for wherein said protocol implementation;

AX register for serial data coming into the said microcontroller after being converted into bits by the wherein said receiver in the wherein said receiver module;

BL register will be used to store the value of wherein said dip-switch meant for setting wherein said Network_ID on the wherein said receiver module in case we are using 4-bit dip-switch;

CX register will be used to store the value of wherein said dip-switch meant for setting wherein said Device_ID on the wherein said receiver module in case we are using 8-bit dip-switch.

10. The system of claim 9, wherein said AX register will operate on "Serial-in, Serial-Out" scheme i.e.

said AX register will intake bit from wherein said receiver in the wherein said receiver module and places it at MSB (Most significant Bit) position after shifting its content to the right by one bit and dropping the LSB out.

11. The system of claim 3, wherein said firmware will first look for wherein said Network_ID; said firmware will perform a comparison of wherein said AL with wherein said BL after intake of each bit, in case we are using 4-bit wherein said Network_ID;

if match is found between AL and BL then the said firmware will look for wherein said Device_ID; said firmware will then intake 4 bits using the same wherein said "Serial-in, Serial-Out" scheme and then compares wherein said AX with wherein said CX register, in case we are using 8-bit wherein said Device_ID;

if the match is not found then said firmware will go back to previous routine of looking for wherein said Network_ID;

if match is found between said AX and CX then the said firmware will look for wherein said Command frame; said firmware will then intake 4 bits using the same said "Serial-in, Serial-Out" scheme and then checks the contents of AH in case we are using 4-bit said Command frame;

if said AH register contents are 0001, it means to turn on the wherein said device attached with the wherein said receiver module;

if said AH register contents are 0000, it means to turn off the said device attached with the said receiver module;

based on the content of said AH register, wherein said Microcontroller will send order to wherein said switching circuit to either turn on or turn off the attached said device.

12. A wireless system through which devices (Fan, Lamp etc) are controlled through voice, comprising:

Software that runs on the PC and has embedded voice recognition engine;

a transmitter that is attached with the serial port of PC running said software;

receiver module attached with the each device to be controlled;

a protocol using which said software after recognizing the voice command will communicate through single said transmitter with said receiver module attached with each device to be controlled;

audio receiver attached with the microphone input of the sound card in the said PC, used to demodulate the audio signal;

audio transmitter module.

13. The system of claim 12, wherein said audio transmitter module comprises:

a microphone used to convert spoken voice commands into electrical signal;

a audio transmitter that transmits the voice command using technique FM/AM;
14. The system of claim 12, wherein said audio transmitter module is placed in every room of a house; when user will speak any voice command, said audio transmitter will transmit it.
15. The system of claim 12, wherein said, audio receiver will demodulate the signal received from the wherein said audio transmitter module.
16. The system of claim 1, wherein said protocol comprising of three frames of bits;

first frame is wherein said Network_ID;

second is wherein said Device_ID; and

last is Command.
17. The system of claim 12, wherein said software will build wherein said protocol based on the voice command recognized and corresponding wherein said Device_ID identified;

said software will then send first the wherein said Network_ID with LSB (Least Significant Bit) first; second the wherein said Device_ID with LSB first and last the wherein said Command with LSB first to the wherein said digital transmitter for broadcast.

18. The system of claim 12, wherein said receiver module will first look for wherein said Network_ID, if mach is found with the said Network_ID on the said receiver module then it will look for wherein said Device_ID, if a match is found with the said Device_ID on the receiver module then it will check the Command frame;

said Command frame will either be 0001 for turning on the attached wherein said device to be controlled or 0000 for turning off the attached said device.